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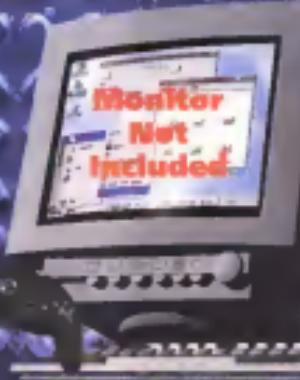
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Online Education

By SANDRA MINGAHL

Derby says the choices in online courses "become broader and more sophisticated as delivery Distance education students can register for accredited university courses graduate degrees or specialized interests. Students from high school and elementary students can elect to learn from the comfort of their home—although the idea can be more bizarre for this age group.

New Breed of Custom Courseware

Traditionally post-graduate universities offered distance-education courses, replete with textbooks, audio cassettes, and written materials for submitting assignments. Teacher-student communication was limited to telephone calls. Distance learning was essentially anйтalking experience.

Today the emergence of client-server computer courseware student-teacher interaction is pedagogically sound learning teaching software.

Tommy's Business College uses a version of client-server software called Worldwide. The software enables students or instructors with teachers through email threads as well as text and graphics that make a special class classical poor students in touch with fellow learners. Worldwide allows students to access Tommy's learning software over the Web, as well as the school's collection of CD-ROMs.

At the University of British Columbia a department of computer science, Murray Goldberg has been instrumental in the design of a distance-teaching tool set. Over 900 universities, colleges and foundations in almost 40 countries have signed up for beta testing of Worldwide. The tool built into this software are designed to maximize communication and collaboration over the Web.

Using Worldwide synchronicity sharing of information is enabled through class areas. Individual file names online, generate a custom study

guide track their course progress and assess their learning on an ongoing basis. The software offers instructors a host of options. Course management module reviews, online marking, record management and student tracking are all supported.

Linda Ranson and Tom Eaton professors at Simon Fraser University recently have developed Virtual U, another server-based software system designed for the delivery of Web-based learning courses. Virtual U is being facilitated at 15 educational and corporate locations across Canada.

This software entrepreneurs emphasize that prompt interaction on information such as required course reading, grading standards, group-coordinating assignments, and weekly meetings. Collaborative groups are set up and info and objectives defined. Guidance and self-direction can ensure students can take an active role in moderate participation or observe.

As with most Web-based courseware materials, components such as video audio clips and animations may be inserted into course modules or messages.

Custom online courseware classes to be based on principles of active learning and self-instruction hence the heavy use of both asynchronous as well as synchronous conferencing. A licensing model of distribution seems to be the norm. Educational institutions purchase a single server license with a cap on how many students can enroll in a course. The greater the number of students, the greater the annual license fees. Online learning and support from the software developer increase the risk.

Emerging Courseware publishers

More and more educational institutions or



organizations recognize the benefits of distance education. Yet for many, the knowledge and constantly changing world of course development is problematic. This need has spurred the development of customized goals, mission of interactive Web-based courseware.

University Online 2000, which comprises over 100 academic institutions developing online courses. They acquire content and develop online course content for delivery over the Internet and corporate intranets. UOL is utilized by numerous development consultants or a license of its own Web-based system. It has formed a number of partnerships with established institutions, such as the University of California at Berkeley's continuing education department. The schools provide the content expertise while UOL provides the design and technical know-how.

This fall UOL's course catalogue will include 90 different offerings, including 3D solid modeling, AutoCAD and Financial Accounting.

Distance software is surging as well. The emergence of others' academic technologies for learning, group work with the university's department is developing new instructional approaches. Professional development, up.

Provincial Network Initiatives

At more and more Canadian school boards get wired we witness a greater number of partnerships that pool talent, financial, and monetary resources. The New Brunswick educational network is working to empower its

huge base of rural communities. A 1993 study claimed that more than 52 percent of the province's population never completed high school with more than 24 percent of adults possessing less than a Grade 9 education. The province is making a major commitment to its distance-education strategy to reverse these circumstances.

Broadband Ontario's Open Learning Agency based in Barrie is a partnership between government, industry and education. The agency offers accredited secondary courses as well as licensure to Grade 12 courses. An online work internship program was initiated in the past year.

British Columbia's Open School program follows the provincial curriculum it is a branch of the technology and distance-education division of the Ministry of Education. Skills and Training, Open School services are delivered in partnership with the Knowledge Network and the Community Learning Network. Current courses include first nations studies as well as adult basic education.

Challenges Ahead

Without a doubt, innovation in distance education—the next area of computer technology—lays on learning forward. Yet these committed to online learning must overcome fundamental issues.

Bob Higgins of the Canadian Ventures has served over 300 online learners over the past year. One of the fastest growing popular courses teaches teachers how to deliver an online course. According to Higgins, many people believe that traditional course material can easily be converted and presented in a type of online lesson format. To Higgins this defeats the very potential of distance learning as a medium that fosters cooperative learning and group interaction.

As online education matures, so too will the many facets of technical solutions and pedagogical strategies. With luck, students will map the territory. ♦

Teaching Writing by Email

by Paul Lima

These days, the Internet is being used for more than sending email, searching for information or shopping. Shopping, however, is becoming an interesting internet inclusion.

An instructor with 15 years experience teaching writing and communications courses and in someone interested in technology and communication, I wondered if the Internet could actually replace the classroom. I converted my in-class writing, writing, freelance writing and media-related writing courses to cyber lessons—complete with let-

ters, personal exercises and assignments—and was looking for online materials.

The first question that came to mind was: How do I promote my courses? The answer came, of course! I set up a Web site offering the courses and promoted them in appropriate newspapers and mailing lists.

What the response made me understand I was pleased and surprised that students signed up after I am an individual not an educational institution like the I feel I established my credibility with an institution well-designed site and with prompt replies to requests for information.

Going Mainstream

After running a few private courses for my wife and myself and the ability to send and receive email, I contacted the communications college located in Barrie (CFC) and asked administration if they wanted to make my courses part of their communication program. They did and since that fall I have conducted online training for over 50 private and college communication education students.

Students often send me e-mail to ask more online commerce guru or regular for courses through the college. Once received students receive lessons by email they also use email to ask questions, submit assignments receive feedback on assignments and communicate with other students.

While I located in Barrie the world has come to my classroom. I have conducted courses for students as Novaeon College (Barrie, Ontario), Ohio, California, Florida, Indiana, and South Africa.

The only pre-requisites for the courses are the desire to write and the ability to send and receive email. Each course module includes lecture notes, reading and writing exercises and assignments students submit by email for feedback. This is similar to in-class situations where instructors use a variety of techniques (lecture, discussions, assignments and feedback) to keep courses interesting.

College students are course start date and time to complete courses within a set period of time. All work for private students can take courses any time and work

at their own pace.

Although my courses are designed for desktop computers, correspondence courses still makes the instruction more beneficial and fulfilling. And I am now looking at setting up a mailing list for even greater interaction and at offering courses designed at HTML files.

Sharing the dictum off

There are differences between teaching in classrooms and teaching online but not many. While I don't miss writing on blackboards and erasing chalk dust off I did find the immediate feedback an instructor gets when taking a class of students roll-eyes break out and work.

The feedback comes in classes progress; however, and students become bolder to me. I once had a class where who-wants-to-why notes and got other students giggling.

Overall feedback from students has been positive. Many have told me they like they were getting "individual attention" and "personal feedback" even though the course was

conducting value. Others liked the fact that they could work at their own pace. As one said: "I enjoyed not having to rush off to class at 7 p.m. on a cold winter night."

A series of events generally has opened many opportunities for business partnerships. Conducting online training has led to several opportunities for me. After six months of e-mailing courses I established new partnerships with Sheridan College and with an educational broker in the United States who re-

cognizes courses for several American universities.

And there has been an unexpected bonus: several corporations have asked me to develop on-line writing and communication courses

for their employees.

So can the Internet replace classroom training? Based on my admittedly limited initial teaching experiences, the answer is yes. And as further value-information over the Net evolves it will become an even more effective and accessible training medium.

Contact the writer via E-mail: Communications@WBS (site at <http://www.wbs.com/~cauchy>) ■

Street Buzz

Continued from page 8

Maximize! Releases Free

[Web site Creation Software](http://www.createitsoft.com)

Last month Vancouver-based Maximize Technologies Inc. announced the free release of MAXIMIZE! Web Site creation tool capable of quickly creating "professional-looking" commercial Web sites. MAXIMIZE! is integrated with the company's leading content management software MAXIMIZE! ST. Each MAXIMIZE! Web site is hosted by its own Web server in an online business site called the Maximize BusinessNet found at <http://www.maximize.com>. Users may download consumer products from the site directly into their existing Maximize database. Maximize Technologies is a privately held company in the Maximize Group of Companies, owned by Terry Hall president of Canadian Pacific Developments Ltd. For more information on Maximize Technologies call 604-865-8000 or point your browser to <http://www.maximize.com>.

Robot producer trades on TSX

Multi-national robotics producer iRobot Corporation took to the Toronto Stock Exchange recently under the symbol IRBT. The Boston, Mass., company makes all its iRobot® floor and floor care automated television robots, which it uses in 60 countries. The company launched the initial public offering at three million shares priced at \$10 each. Toronto-based Alliance Multicentre recently sold back 700,000 of its shares to the same institution while Maximize is also producing two iRobot® lines and a company game based on iRobot in conjunction with computer gaming firm Horizon Arts.

All Technologies, IBM to Develop Clinical Image System

Toronto-based All Technologies and IBM are jointly developing a medical image archiving technology capable of serving entire regional districts. The Canadian Network for the Advancement of Research, Industry and Education will fund the new venture with a \$500,000 seed grant. The project was awarded to a consortium from All Technologies with solutions being chosen from 250 applications. All develops medical image management networks for hospitals and prescriptive software and interface systems for clinical imaging.

Steve Bain is the Computer Player/Canada Computer website Correspondent in Vancouver, Canada. Send news tips, questions or comments to steve@compuserve.com. ■



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Lessons and Laughs:

CD-ROMs For Kids

by S.J. Ross

With delightful characters and engaging interactivity one of the best advantages the computer can offer children is a lesson that is so fun they want to learn. So keep the kids daddies, and those rental outlets of your child's mind and read the following reviews for tips on some of the hottest educational CD-ROMs available (note: all prices are suggested retail).

Ready to Read with Pooh

From Disney Home Entertainment, Contact: 800-889-0431. Price: \$40.00.

Gather round girls and boys—your sweeties the apes of doom and there can join Pooh and his friends to play games, color pictures, make music, watch cartoons, count numbers, and read stories addressed to you.

Set in the 100-Acre Wood, learning activities are centered around stories where children can interact with A.A. Milne's characters. And when the child has successfully accomplished a task, he or she is rewarded with songs and poems.

Giving you three-and-a-half hours of play, this CD-ROM offers three levels of difficulty and clues to help your child Ready to Read with Pooh practice more. Activities designed to teach and reinforce basic language skills such as the alphabet, upper and lower case letters, plurals,

counting, spelling, reading, writing, simple words, and sentence structure. This interactivity is enchanting as ever.

The Interactive Alphabet

From Hoffmeyer Associates, Contact: 800-446-3432. Price: \$32.99.

Finally a Cool CD-ROM that is lots of fun, and doesn't sacrifice advantage of some of the benefits of multimedia. Now owned by Hoffmeyer Associates (although still bearing the Cool logo), The Interactive Alphabet is a charming multimedia alphabet where goofy characters—including a happy spacy creature, a dancing squirrel, and a sharp yet sweet snowman—encourage children ages three to seven to learn and write.

The child can choose the letters they wish to learn about and hear a story and watch a fun animation sequence packed with words starting with the chosen letter and can pick interrelated words to hear and view related situations. Children can listen to new words or read them themselves and can click on individual words in their presentations.

Focusing on 500 words, the program is easy to learn, engaging, and full of words and cool, zany candy that will, for example, encourage writing to teach your child how to write letters.



CD-ROMs For Kids

spelling, drawing letters, and choosing sample words that whoo-ooohed children. This interactivity is enchanting as ever.

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Interactive Alphabet focuses mainly on recognizing letters and words.

My First Encyclopedic American Dictionary
From Disney Knowledge, distributed by General Publishing Contact: 800-347-9337. Price: \$34.95.

Another at-home ages three to seven including those who cannot yet read or have never used a computer it is a fun, interactive introduction to 1,000 words. With 2,500 sounds, more than 1,000 illustrations, 950 associations, 2,500 pronunciations, and the option to read-on-the-word word definitions, and autocorrect. My First Interactive Dictionary is packed with whimsy.

Of the three games included—Guess What's Spill It and What's That Name?—the last game with its iconic memory when the user is right, wrong, and over the game is correctly concluded is the most fun.

Senior Blaster Jr.

From Electronic Associates, Contact: 800-545-5457. Price: \$40. (Mega-Math Blaster Jr. \$40.)

The latest release of the Blaster series, this disc features Senior Blaster Jr., a game that allows children to explore space and encourage them as they travel through space. Aimed at children just a year past preschool, Senior Blaster Jr. includes graphics, animation, and music in an exciting journey through space. Children can play along with Blaster using interact with single-player challenges, play games, and earn certificates.

Some of the experiences children can enjoy include: include interacting with various planets; to understand what our relationships, and mix ingredients to understand color the sky. Children will also learn about animals and plants. Journalistic scientific discoveries weather and seasons, and the properties of sound. If you're not the type to consider Mega-Math Blaster Jr., which also provides resources for parents.

How Would You Survive?

From Cool Entertainment, Contact: 201-357-3336. Price: \$24.99.

The only CD-ROM to ever crash my system, How Would You Survive? is one part picture book with a primitive animation and solar system, and one part question-and-answer game. Offering a comprehensive look at the lives of ANCIENT Egyptians, Vikings, and Aztecs, How Would You Survive...designed for children

ages ages three to 12—includes topics ranging from landscape, wildlife and family life to libraries, cheating, credits, rights, dreams, health care and availability. Users can examine regional maps and time lines describing major historical events, focus on an unnamed child's name (although names from different civilizations have surprisingly identical script), click on various objects on the screen, and view successive slide shows.

Based on an interactive database, the CD-ROM is more than just game as the interactivity is comprehensive, and interesting the navigation is relatively simple and a child has choice of one of three cultures may find the CD-ROM quite interesting.

The Magic School Bus Explores The Rainforest

Contact: 404-957-1000. Price: \$34.95 [each title]. Suggested retail price: Title \$34.95 [each title].

This sixth and newest title in Scholastic's The Magic School Bus series provides children with a wonderful interactive romp through a rainforest setting with plants and animals recommended for children ages six to 12. The disc also offers a variety of educational tools including a (barely) wet-ony-wet color photographic of different butterflies, a field guide, a magnifying glass to magnify areas of interest, a spotting scope to view distant leaves and other magnified features, including the words to the theme song, and the ability to pause the program or read or print specific dialogue.

With water clip narration sounds, animation and photographs, this CD-ROM makes excellent use of visual stimulus—especially animation—to provide a detailed tour of the rainforest. From science packed with insects, hot spots to awakening animals and people, The Magic School Bus Explores the Rainforest has enough fascinating details to die in anyone's passion for biology.

It's free, an independent corporate marketing agency, and public relations writer and consultant and for an extensive portfolio of corporate and government clients can be reached at www.goldstein.org.

B.C. CD-ROMs Offer Lessons in History, Geography, Creativity

BY JUNE CAMPBELL

Here's a trio of educational CD-ROMs from

BC software developers.

Adventure.com U.S.A.

From VR Distinct

[With VR: <http://www.adventure.com>](http://www.adventure.com)

Price: \$49.95. 280 MB (install required). 1718.00 (for computer disk only).

Produced by VR Distinct in Bremerton, this CD-ROM focuses on American heritage and culture. You'll view the United States as a whole or by region—highlighting the more geographic information layers and underwater historic and heritage information.

not and more. This disk is fully interactive and Internet enabled and users can add their own video pictures, sounds and text to create personal websites, or may opt to create interactive advertisements with others via VR FTP. Designed for use as school projects, the Adventure.com website complements with lesson plans that are also recommended for family projects, research presentations, the local library and personal projects. Although incomplete with a smattering of U.S. patriotic Adventure.com, U.S.A. is a well-edited, interesting, and informative project. It comes on a Win/Mac hybrid CD-ROM.

Making History

Louis Riel and the North-West Rebellion of 1885

From: Meena Multimedia

Tel: 506-767-7718

Fax: 506-767-2899

This CD-ROM is believed to be the most complete compilation of information on Louis Riel ever assembled. Taking more than five years to produce Making History is a not alone missed opportunity of this exciting period of Canadian history.

Your journey starts aboard a train bound for the North-West Territories. Once in the prairie,

you'll navigate through seven rooms—each providing a different set of information on the Red River. In the Theatre a four-minute documentary introduces you on the topic. Moving along, you can read newspaper clippings in the Newspaper Reading Room or use the Big Book to see how events were shaped by historical, cultural and political factors.

The Document Library features transcripts of letters and stories while the photo album in the Studio will give you glimpses of people and events. A map of the *Canadian Pacific* across cities, cities, towns, and

Continued on page 138

Language Lessons

by Lee Lester

GO VIRTUAL

Japanese, and Spanish to be easily available. A citizen in Africa is on an airway from Japan almost unaware of the West, such as Hong Kong, Korea and Macau have their own Web sites.

Of course it's all very well to use the Web to acquire vocabulary and learn the rules of grammar and syntax but how do you learn pronunciation? say "doktorprofeßorlich" to just such a stock company but a German or tell a French waiter "Monsieur, il y a une mouche dans la soupe" (there's a fly in the soup)?

Speak Up

Just as in a brick office courses can provide phonetic approximations—but the big plus of online learning is that sound files can be provided. Download them record your own intonation, and compare. Just like language courses on an audio cassette or on CD-ROM.

Some language Web sites provide another big plus: discussion areas where users those

with limited knowledge of a language can read what others have to say and contribute to discussions. Make a comment and you are likely to have it gently drawn to your attention and participants are likely to be as helpful as in other areas of the Net such as those dealing with hardware or software problems.

Surprisingly my search did not turn up many resources offering online courses. There's money there for the language departments of fund-starved Canadian universities if they seize the opportunity.

Of the major Western languages only German proved difficult to find. The one Web site that already offered German taught my Macintosh to freeze every time I tried to access it: there are many more sites offering English lessons.

But let's face it. To master a new language there's nothing like speaking. With the growing use of Web phones you could soon be practicing your pronunciation and intonation with a native speaker in Baden-Baden, or Berlin. Bonne chance! Viel Glück! Good luck! *

Language Lessons

Here is a selection of Web sites offering free courses in foreign languages:

Chinese: Web Chinese at [UBC](http://www.cs.ubc.ca/~chinese/). Chinese 101 at Zheng Gaojing of Tsinghua University in Beijing, Australia has developed a simple but comprehensive introduction to a complex language that is becoming increasingly commercially important. Go to <http://www.chinese.bendit.com.au/>

French: Oak, leaf, birch leaves, Le Guide de la France: French voice-activated lessons with audio French voices, and French chat. See how up-on our other official language, go to <http://www.oakleaf.com/~french/>

Hungarian: It used to be about the dead European language in town. But if you fancy your chalets and want to ask for guidance in Budapest, this site offers a comprehensive introduction, which can be viewed at <http://www.oakleaf.com/~hungarian.html>

Japanese: Try this mind-moving site operated by Basic Software Publishing Inc. of Bell-German Black. To begin with the nicely-voiced introduction, go to <http://www.japaneseclasses.com>.

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Letter: London's Daily Telegraph has a 20-week series as an introduction to the Roman plague that affects us all. You can download it from the Electronic Telegraph website at <http://www.electrograph.co.uk>

Spaniards: Greetings! You look out for the University of Missouri's Free Spanish for the Virtual Student course. More than 50 modules have been prepared by people for a top-notch

PC CDROMS

Continued from page 12

audio or text) with very Spanish the Reference Room helps you find specific information, and the Railways and Versoossa contain pictures and clips and other forms of pertaining information.

Actors person the lives and views of Louis Riel, Sir John A. Macdonald and other historical figures. Canadian historians provide their perspectives on the events.

Using a special feature called The Journal students can compile their own collection of material for projects or conduct their reports in teacher's guide is included.

Making History was produced by Vancouver's Nitro Multimedia with the National Film Board and in partnership with the Department of Canadian Heritage. In May the disc won Best Interface Design in the TIBBT International Digital Media Awards, hosting and Nominated MPN.

Paint 'n' Play

From: Sunny Feet Software Company Ltd.
Web: <http://www.sunnyfeet.com>
Email: sunnysoft@pcinet.ca
Phone: 604-527-15

These 10-year old kids may have to wait for more and don't stop playing with this delightful program designed for the curious, explorative mind of a young child. Paint 'n' Play enables kids to use the computer as a tool of the imagination; it allows a child to have fun while developing creativity.

Paint 'n' Play's coloring programs add a musical element—different instruments play in response to different colors. In different areas of the picture and by changing colors a child can gradually change the music from, for instance, a banjo song, using arrangements as a thematic approach based learning hours per session and word counts. Special editing was added to prevent the use of MPK in Macromedia Director presentations.

Paint 'n' Play is the dream of producer Ross Beedlefield, a director of feature films and children's TV who sees to see a need for good children's programs. Much of the work and writing of the software has done on the Internet and involved the contributions of talented single mothers.

Paint 'n' Play is the first product from his company/Sunny Feet Software Company Ltd.

June Campbell is the owner of Adagio Multimedia Productions. You can reach her by telephone at <http://www.adagio.com> or by phoning 403-229-1219 during business hours. □

golden (there even if Web-phone users). Check it out at <http://www.unisys.ca/~craig/virtgold/>

Sweditz: Bill under construction, but Art Claude Higginson calls this one of the 1-405 Best Five Things on the Web. The course outline

appears to be quite comprehensive and can be viewed at <http://www.cs.sjsu.edu/~art/higginson.html>

Watch: No links or dragon at Mark Hodder's site. Instead no problems, it's all

older information. The emphasis is on developing computational skills rather than understanding history. Watch it out at <http://www.cs.sjsu.edu/~hodder/Watch.html>. □

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Vancouver Web Site Wins **SOFTIE '97** Seven Canadian Internet Awards

BY JUNE CAMPBELL

SOFIE '97 Seven Vancouver IT professionals walked away with seven prizes at the Canadian Internet Awards held in June. Sofie '97 was awarded Best Internet Resource - Non Technical, Best Tools and Utilities, Best Service on the Web, Best Development Award on Collaboration, Best Project or Pilot, Best Online Service and Best Contribution to New Standards and Services.

The Canadian Internet Awards are a spin-off of Net '97, the Internet conference held in Halifax in June. Prior to the conference, 500 visitors were invited to nominate Canadian sites, ranging from local to global. The people behind Sofie '97 were surprised when they received a message advising them that they had received nomination in 11 categories and that they should consider attending because in the conference audience was going to be taking home too many awards to be missed.

Sofie '97's conference site, Sofie '97 has also been rated by WebCrawler.com as one of the Day and was "Today's Canada's Site of the Week" July 11, 1997.

According to Tom 1915, Sofie '97's founder who holds the title of special projects programme manager and web production director (Sofie '97 counts Sofie '97 as its "council"), communication is important because it links community and there needs to be a Web site around that community. Sofie '97 is unique in that we have recruited over 100 volunteers from all over the world to help expand our Web culture as an aspect of technology and technology can be used to spread the word. Sofie '97 has created a weekly article as well as moderating a discussion. Managing editors oversee the sites for each section and copy editors keep a watchful eye on typos and spelling errors.

"We believe that people will come to our site because we have real people discuss quality information and to get something 100,000 of URLs for a search. If you have a question, usually one of our editors will be able to find the answer you are looking for. We think that this service gives users a satisfaction from the chance of the Web. Our service is free and everyday more and more people are asking us because an editor for a reply on which we are experts."

Transferring an address when across the Internet through Internet relay will appear to make an unique feature which is available free to registered users. Users enter their book marks, telephone numbers, appointments and schedules on a password protected area. A personal e-mail office is then accessible from any Internet enabled location.

Sofie '97, which was developed by a six-person team, were voted approximately one year ago a newly created system offering both Internet and Intranet default Aug. 6.

To experience Sofie '97 go to <http://www.sofie97.com>. For more information on Pier Communications call 604-463-1400.

Jane Campbell is the owner of Highgate Multimedia Productions. You can reach her by email at jcampbell@sfu.ca or by phoning 604-998-1619 during business hours. *

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Back to School Basics

Multimedia Systems for Student Size Budgets

by Lynn Greiner and Sandra Mingott

I cannot tell you to head back to school and buy the tools of the trade. And since the rapidly computing is taking its place next to the traditional reading, writing and arithmetic as a basic skill.

Besides buying cool toys, computers can be invaluable for learning. In conjunction with an online service like America Online or a commercial service such as CompuServe or America OnLine your silicon pal can become a window to the wondrous—and magnificy—of the entire world.

We took a look at a few of relatively inexpensive machines to gauge their suitability for students. We looked at the machine itself, its software bundle and its connectivity to see if the package offered in one way that would enhance the learning process as well as provide a bit of fun. Bear in mind that the best choice depends not only on the student's needs, but on the resources used or recommended by their school. If you have to build it, remember that Apple software for the new PC on the planet will be really useless.

We stuck to desktop systems for this roundup although some notebooks are actually now desktop legal. (Check CP for a couple of models for a peek at the census of the current mobile crop.) Here's what we've selected alphabetically (order by manufacturer except for the last two) All systems except the Apple come with Windows 3.1 preinstalled.

ASL Adventure 4300

This machine incorporates the following: 486 33MHz Intel Processor; 2 GB 32MB dual mode CD-ROM/DOS; 16 MB RAM; 300MB hard with surround sound, 35.4KBPS modem and 10BaseT Ethernet. It has a Compaq screen price of \$1,962.

Broderbund software includes: Compaq Worldwide 2, Jane's Initial Quarterly III, and Broderbund Complete Reference Library plus an entertainment game tape by Broderbund Systems called "Not Sure? Know pack!" Microsoft Internet Explorer and newsup software from America Online, CompuServe, Prodigy and AOL WorldNet.

WorldNet and the Complete Reference Library are especially useful for high school students. The reference site incorporates 10 minor books including a dictionary, standard book of quotations and a legal dictionary. On the downside, the material is heavy on American content.

Setup was accomplished in approximately 15 minutes. Connections were clearly labeled on the back of the CPU. The keyboard has a comfortable touch—especially if students are spending hours churning out term papers.

There is little documentation provided the new user. The manual is rather cryptic and mainly concerns the location of installing boards, adding system memory and setting jumpers like hardware though, was reliable. In performance, Broderbund is crisp and smooth—very impressive.

Compaq Presario 2100

This is a very basic machine that packs all of its components into a small flat black box. (The only desktop model we saw.) It's a 33-MHz 80486 processor with 16MHz FPU, 1.5MB RAM, 300MB hard drive, 16 MB RAM, and a 56-KBPS modem. Performance is patchy. The price is very reasonable at \$1,990.

It is simple to assemble—the hardest part is opening the box—and comes with a 15-inch monitor, the software bundled in a box, plus, offering Compaq's Interactive階層化 Menus. Windows 3.0 QuickSet 2.0 and version 1.0 of Subject 99 and a couple of games. Online access is provided through Netscape Navigator, a sign-up for Juno Internet email and the ever-present America Online.

At press time, Compaq announced that this model will be phased out over the next few months in favor of a slightly stripped-down version that memory smaller hard disk (one-third processor) costing several hundred of dollars less.

Hewlett-Packard Pavilion T3100

A prior system that won't be looked at again for its price (over \$3,200 it's also loaded with a 200-MHz Pentium processor with 8MB, 12 MB RAM, a 1.3GB hard drive, 16X CD-ROM, 15.4-in. 1600x1200 resolution and a pair of Alesis lazing speakers that sound like ears on a 107-mph motorcycle. Not so well as the standard ports, it has a 100-Mbps internal local bus connection, the fastest standard (according to the recently announced PC-98 spec), for connecting everything from monitor and keyboard to scanner.

The keyboard has a full set of multimedia

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controls as well as the usual typing keys. You can adjust speaker volume via the telephone interface and even suspend the system by simply popping one of these special keys.

The system is constructed well but doesn't quite noise. The hard drive is quiet when active; it's phenomenal if it's muted with several of the very large hard drives and the CD-ROM drive never got louder than a murmur.

The software bundle is an eclectic mix of stale educational titles such as *Vista's Fantasy*, *Cool! 3D Animation*, *Graphic Logic*, *Quint's Cool Math Adventures*, *Smart Word Adventure* and *FunTime!* and titles the teacher or older student would want such as *Computer Interactive Encyclopedia Britannica*, *HP Home Calculators*, *Quadratic II*, *Linear Motion Place Trigonometry*, *ST M* and *Macmillan Works*. There are also several games (including *Whistplus* and *MonkMaster*), *25 Millionsong Music Guide*, *The Broadway Guide*, *To Movies & Music*, telephone software and, when you register your system, *Line Guy 2000*. **CONNECTIVITY** is supplied through expansion for *AppleTalk*, *Parallel*, *PrintNet*, *CompuServe* and Internet, *Windows* and *Windows 95*.

HP has a simple interface called *Personal Page* that allows you to easily call to you as well as displaying icons and text, but experienced users will quickly abandon it in favor of the normal Windows 95 shell.

IBM Aptiva E32

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\$249.99-\$364.99-\$464.99-\$564.99-\$664.99-\$764.99-\$864.99-\$964.99-\$1,064.99-\$1,164.99-\$1,264.99-\$1,364.99-\$1,464.99-\$1,564.99-\$1,664.99-\$1,764.99-\$1,864.99-\$1,964.99-\$2,064.99-\$2,164.99-\$2,264.99-\$2,364.99-\$2,464.99-\$2,564.99-\$2,664.99-\$2,764.99-\$2,864.99-\$2,964.99-\$3,064.99-\$3,164.99-\$3,264.99-\$3,364.99-\$3,464.99-\$3,564.99-\$3,664.99-\$3,764.99-\$3,864.99-\$3,964.99-\$4,064.99-\$4,164.99-\$4,264.99-\$4,364.99-\$4,464.99-\$4,564.99-\$4,664.99-\$4,764.99-\$4,864.99-\$4,964.99-\$5,064.99-\$5,164.99-\$5,264.99-\$5,364.99-\$5,464.99-\$5,564.99-\$5,664.99-\$5,764.99-\$5,864.99-\$5,964.99-\$6,064.99-\$6,164.99-\$6,264.99-\$6,364.99-\$6,464.99-\$6,564.99-\$6,664.99-\$6,764.99-\$6,864.99-\$6,964.99-\$7,064.99-\$7,164.99-\$7,264.99-\$7,364.99-\$7,464.99-\$7,564.99-\$7,664.99-\$7,764.99-\$7,864.99-\$7,964.99-\$8,064.99-\$8,164.99-\$8,264.99-\$8,364.99-\$8,464.99-\$8,564.99-\$8,664.99-\$8,764.99-\$8,864.99-\$8,964.99-\$9,064.99-\$9,164.99-\$9,264.99-\$9,364.99-\$9,464.99-\$9,564.99-\$9,664.99-\$9,764.99-\$9,864.99-\$9,964.99-\$10,064.99-\$10,164.99-\$10,264.99-\$10,364.99-\$10,464.99-\$10,564.99-\$10,664.99-\$10,764.99-\$10,864.99-\$10,964.99-\$11,064.99-\$11,164.99-\$11,264.99-\$11,364.99-\$11,464.99-\$11,564.99-\$11,664.99-\$11,764.99-\$11,864.99-\$11,964.99-\$12,064.99-\$12,164.99-\$12,264.99-\$12,364.99-\$12,464.99-\$12,564.99-\$12,664.99-\$12,764.99-\$12,864.99-\$12,964.99-\$13,064.99-\$13,164.99-\$13,264.99-\$13,364.99-\$13,464.99-\$13,564.99-\$13,664.99-\$13,764.99-\$13,864.99-\$13,964.99-\$14,064.99-\$14,164.99-\$14,264.99-\$14,364.99-\$14,464.99-\$14,564.99-\$14,664.99-\$14,764.99-\$14,864.99-\$14,964.99-\$15,064.99-\$15,164.99-\$15,264.99-\$15,364.99-\$15,464.99-\$15,564.99-\$15,664.99-\$15,764.99-\$15,864.99-\$15,964.99-\$16,064.99-\$16,164.99-\$16,264.99-\$16,364.99-\$16,464.99-\$16,564.99-\$16,664.99-\$16,764.99-\$16,864.99-\$16,964.99-\$17,064.99-\$17,164.99-\$17,264.99-\$17,364.99-\$17,464.99-\$17,564.99-\$17,664.99-\$17,764.99-\$17,864.99-\$17,964.99-\$18,064.99-\$18,164.99-\$18,264.99-\$18,364.99-\$18,464.99-\$18,564.99-\$18,664.99-\$18,764.99-\$18,864.99-\$18,964.99-\$19,064.99-\$19,164.99-\$19,264.99-\$19,364.99-\$19,464.99-\$19,564.99-\$19,664.99-\$19,764.99-\$19,864.99-\$19,964.99-\$20,064.99-\$20,164.99-\$20,264.99-\$20,364.99-\$20,464.99-\$20,564.99-\$20,664.99-\$20,764.99-\$20,864.99-\$20,964.99-\$21,064.99-\$21,164.99-\$21,264.99-\$21,364.99-\$21,464.99-\$21,564.99-\$21,664.99-\$21,764.99-\$21,864.99-\$21,964.99-\$22,064.99-\$22,164.99-\$22,264.99-\$22,364.99-\$22,464.99-\$22,564.99-\$22,664.99-\$22,764.99-\$22,864.99-\$22,964.99-\$23,064.99-\$23,164.99-\$23,264.99-\$23,364.99-\$23,464.99-\$23,564.99-\$23,664.99-\$23,764.99-\$23,864.99-\$23,964.99-\$24,064.99-\$24,164.99-\$24,264.99-\$24,364.99-\$24,464.99-\$24,564.99-\$24,664.99-\$24,764.99-\$24,864.99-\$24,964.99-\$25,064.99-\$25,164.99-\$25,264.99-\$25,364.99-\$25,464.99-\$25,564.99-\$25,664.99-\$25,764.99-\$25,864.99-\$25,964.99-\$26,064.99-\$26,164.99-\$26,264.99-\$26,364.99-\$26,464.99-\$26,564.99-\$26,664.99-\$26,764.99-\$26,864.99-\$26,964.99-\$27,064.99-\$27,164.99-\$27,264.99-\$27,364.99-\$27,464.99-\$27,564.99-\$27,664.99-\$27,764.99-\$27,864.99-\$27,964.99-\$28,064.99-\$28,164.99-\$28,264.99-\$28,364.99-\$28,464.99-\$28,564.99-\$28,664.99-\$28,764.99-\$28,864.99-\$28,964.99-\$29,064.99-\$29,164.99-\$29,264.99-\$29,364.99-\$29,464.99-\$29,564.99-\$29,664.99-\$29,764.99-\$29,864.99-\$29,964.99-\$30,064.99-\$30,164.99-\$30,264.99-\$30,364.99-\$30,464.99-\$30,564.99-\$30,664.99-\$30,764.99-\$30,864.99-\$30,964.99-\$31,064.99-\$31,164.99-\$31,264.99-\$31,364.99-\$31,464.99-\$31,564.99-\$31,664.99-\$31,764.99-\$31,864.99-\$31,964.99-\$32,064.99-\$32,164.99-\$32,264.99-\$32,364.99-\$32,464.99-\$32,564.99-\$32,664.99-\$32,764.99-\$32,864.99-\$32,964.99-\$33,064.99-\$33,164.99-\$33,264.99-\$33,364.99-\$33,464.99-\$33,564.99-\$33,664.99-\$33,764.99-\$33,864.99-\$33,964.99-\$34,064.99-\$34,164.99-\$34,264.99-\$34,364.99-\$34,464.99-\$34,564.99-\$34,664.99-\$34,764.99-\$34,864.99-\$34,964.99-\$35,064.99-\$35,164.99-\$35,264.99-\$35,364.99-\$35,464.99-\$35,564.99-\$35,664.99-\$35,764.99-\$35,864.99-\$35,964.99-\$36,064.99-\$36,164.99-\$36,264.99-\$36,364.99-\$36,464.99-\$36,564.99-\$36,664.99-\$36,764.99-\$36,864.99-\$36,964.99-\$37,064.99-\$37,164.99-\$37,264.99-\$37,364.99-\$37,464.99-\$37,564.99-\$37,664.99-\$37,764.99-\$37,864.99-\$37,964.99-\$38,064.99-\$38,164.99-\$38,264.99-\$38,364.99-\$38,464.99-\$38,564.99-\$38,664.99-\$38,764.99-\$38,864.99-\$38,964.99-\$39,064.99-\$39,164.99-\$39,264.99-\$39,364.99-\$39,464.99-\$39,564.99-\$39,664.99-\$39,764.99-\$39,864.99-\$39,964.99-\$40,064.99-\$40,164.99-\$40,264.99-\$40,364.99-\$40,464.99-\$40,564.99-\$40,664.99-\$40,764.99-\$40,864.99-\$40,964.99-\$41,064.99-\$41,164.99-\$41,264.99-\$41,364.99-\$41,464.99-\$41,564.99-\$41,664.99-\$41,764.99-\$41,864.99-\$41,964.99-\$42,064.99-\$42,164.99-\$42,264.99-\$42,364.99-\$42,464.99-\$42,564.99-\$42,664.99-\$42,764.99-\$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Back to School

Continued from page 2E

5-1/2" CR harddisk drive, 12x CD-ROM drive, and 512 MB RAM. The machine comes with a 15-inch monitor (optional monitor prices for this system are \$1,495).

The premium software bundle provides many useful tools for the elementary and junior high set, including Maya Glass Family Health by VT Publishing, Gulliver's Mathematics Encyclopedia, 3D Art by Electronic Arts, KidZone Writing Machine by Broderbund, Shakin' Things 3 by Broderbund, American

Heritage Dictionary by Scholastic, and the USA in Color! See Details by Broderbund. X60 Pro by Broderbund, and Classics 4.0. Several games, a Web-page viewing tool, Internet connecting set, and instant messaging software round out Apple's comprehensive software bundle.

Santech Sequoia PT-S200

Santech was also unable to supply a machine for review. It did provide us with perfect specs on its model S200, though. The Sequoia PT-S200 features a 400-MHz pentium processor, 32MB SDRAM, a 1.3GB 3.5" IDE hard disk, 30X CD-RW, a

15.4" LCD screen with voice, a 2.5 GB hard disk drive, 16x CD-RW drive, and 32 MB EDO RAM. It comes with a 17-inch image monitor and 80-Watt speakers. This model's \$4,199 price tag places it well within the star-disk range.

The package includes MI Internet Explorer and Fox Home, as well as some games.

Editor's Choice awards

For Editor's Choice, we've selected the NBC Studio 30 software bundle, although more than able for most students, contains a program, and the system itself is powerful and sturdy enough.

at reasonable price, and you've got a winner. For more information contact:

Apple, 800-283-1204 <http://www.apple.ca>
AST 800-374-4278 <http://www.ast.com>

Compaq, 800-347-5000 <http://www.compaq.ca>

DevNet, Package 103-256-4725 <http://www.devnet.com>

IBM, 800-267-0277, ext. 1280 <http://www.com.ibm.ca>

IPC, 800-444-4472 <http://www.ipc.ca>

MPC, 800-412-0334 <http://www.mpc.com>

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What Took So Long?

Mac Rant

ERIC BESEN

Less than 18 months after GE finally took charge of Apple, the self-appointed Macintosh specialist is not it's best friend—was the Mac—and arguably the most inadequate of Apple's recent leaders. The real question is: What took so long? Let's hear it for Eric.

Everyone agreed, Justice Dennis Mullaney, Apple's chief counsel charged with Apple's corporate culture, was the example during an interview shortly after taking the helm at Apple. Mullaney

suggested that wearing a six-second Apple t-shirt would be an enormous help; we have spent two years fed the exact same.

Besides that the more significant warning signs now become clear: Apple's morale continues to deteriorate; customers' faith without days of its taken charge at Apple had a complete measure-long dip. MacWorld readers may recall our discussion with Apple's corporate jet, paid for by Apple. When that company's travel policy was revised about a year ago requiring each re-

client to sign off their flight, employees never knew to do so.

Apple continued to struggle to withstand

the personal computer market share decline and the company had off thousands of workers, many going to rival and competitor Apple, who lost many senior managers and posted net losses of \$1 billion over the six quarters. As we went to press, Apple's stock had dropped to a 12-month low under \$14 share price.

Apple clearly has already appointed a selection committee to find a new chief executive officer and a decision is expected in one month. Until a new chief executive is hired Fred Anderson, a highly regarded financial executive whom Apple brought in to be Apple's chief financial officer will be in charge of the company.

Apple's New Inkjet

Technology-wise Apple still continues to make great products. This month, for example comes news of three new color inkjet printers: the entry-level Color InkjetWriter 4000, the midrange Color InkjetWriter 4500 and the high-end Color InkjetWriter 4800. The midrange Color InkjetWriter 4500 (priced at \$1,299) comes with photo-quality color and the Color InkjetWriter 4800 (priced for high-end jobs) features the dual Mac OS/Windows command. Apple also introduced the ColorWriter (about \$1,299), a printer networking device that lets Mac OS/Windows share Apple's color inkjet printers on an EtherTalk network.

The Color InkjetWriter 4000 and Color InkjetWriter 4500 have approximate print

prices of \$499 and \$799 respectively. The Color InkjetWriter 4800 carries an increased retail price of \$679. The ColorWriter (EtherTalk Network II) is expected to be available later this fall (again for about \$250).

Making Sense of the Ads

Finally there's news that topic a advertiser can get back on track. David Barnes Apple's vice-president of Advertising & Brand Communications announced that Apple is independent of agency BBDO would be advertising independently to an agency-massive revenue allegedly hitting BBDO that is would have to compete with everyone else to win Apple's advertising business.

BBDO hit the news BBDO announced the same day it would resign from the Apple account. In its written press release BBDO said it had decided over-thinking advertising for Apple for 12 years, terminating the long-standing major agency partnership in the computer industry. The resignation will take effect Sept. 30, 1997.

BBDO turned down the invitation to the Apple account seven years ago and has received significant recognition for their creative efforts for Apple. Just last year the agency received another series of advertising industry awards. In 1995 Apple's branding work was honored from the American Marketing Association Hall of Fame. Now BBDO are great for an advertising company but not necessarily great for the client long-term readers will recall the Rating. Once constant materials of Apple's half-witted ad campaigns such as the talking dog or "mugshot" spots. Let's see if the new firm can work smarter—or is everyone know Apple is still in the game.

Get the inside group! Send press releases, tips and comments to MacComputer.com. Please note that due to the volume of mail, individual questions cannot be answered. *

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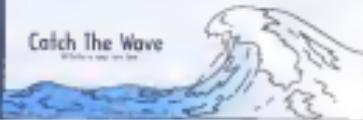
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Catch The Wave
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Online Grocery Shopping Coming to B.C.

By June Campbell

SHOP ONLINE. Canada's first and leading utility of Internet commerce has recently opened an office in Vancouver with expectations of making online grocery shopping available in B.C. consumers.

"We have been in the Internet commerce business for over two years and launched Canada's first online grocery chain. In addition to that, we have set up many other store fronts and have done work in the area of conventional, communities, for consumers and business to business applications," says Sandy MacKillop from the B.C. Vancouver office.

"We are launching a chain of grocery stores online on Vancouver Island and are currently negotiating with some stores in Vancouver and other areas of B.C. Everybody is looking about Internet commerce and we are one of the few companies actually doing it. I believe the Web can help stimulate consumers and corporations on beyond the type of the business and Internet commerce."

Marketing Director and Founder Sandy MacKillop says that when she's asked about the food industry by raising up Food Fair in Winnipeg, the company became the first to sell online groceries over the Internet. Food Fair now boasts over 1,500 online consumers and has another 1,500 on its mailing list.

Food Fair customers select items using a Shopping Cart type feature. A "save list" option allows them to save and reuse their shopping lists. Once the list is completed, the consumer confirms the color and they go in print out the front code logo at home. The improved list is sent to a server in Memphis, where the customer's postal code is saved and the color is formulated via result in the Food Fair system the consumer. The store confirms the delivery telephone prints the name and delivers if required.

Payment may be done online via the encrypted Web site or by cash or charge upon delivery or pickup. Orders average around \$300 with a \$750 order being the largest delivered to a private household.

The service is now heavily used in western months and has proven particularly popular with disabled individuals and senior citizens. Limited consumers in the Canadian north have also taken advantage of the service ordering online in quantity and paying no freight charges for delivery.

On Aug. 21, Food Fair and Beta will celebrate their first year of online shopping. MacKillop decided to provide details regarding B.C. plans after suggested British Columbian watch for an announcement in November.

For more information check out their Web site at <http://www.foodfair.ca> or call 1-800-233-7777.

June Campbell is the name of Highgate Multimedia Productions. You can reach her by email at jcampbell@sfu.ca by phoning 604-521-18 during business hours. ■

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Encyclopedias

(Continued from page 8)

for 1992 lists. Perhaps Gardner should read his own sources a bit more carefully.

Books also suggest that scoring 10-30% extra is typical on a scientific subject and not that it told others lots on subjects like leisure or geriatrics and others as mass. For example, it's way off to find out something about health being shifted to the 1930s. After a few decimal

points, though, and the subject of a third digit moves elsewhere. None of the four even mentioned her.

Dictionary delights:

After the disappointment of the encyclopedias

data, the Merriam Webster Collegiate Dictionary was delightful. This radio edition (version 1.5) lets you hear the pronunciation of words with built-in tone and pitch synthesis. It also includes 1,000 color illustrations and maps. While it may not be the most comprehensive, it is a fairly comprehensive.

It does include some nice-to-knows such as "the Great American" (spelling), or "Porky" but it does not include phrases a word that has entered the language via Star Trek since 1966. Technical words also appear in the field ontology. For example, I failed to find the words "monolithic" and "silicon" while entries for "silicon" were in my areas of books.

While all the encyclopedias have fine points at their disposal, I might say for example have a feature entitled "planets" where you can explore the characteristics of the seven as wholly reliable. My best advice is to use them as a starting point for basic information but for the details in the library, the in-depth information that can be crosschecked for accuracy.

CNET CompuReview is a graduate of the University of Alberta. In one of my older living Canadians who has had an esteemed career in the longer, you can contact him at pcreview@compuserve.com.

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Unlocking the Human Spirit

BY HILARY VAN WELTER

The other day while doing research at one of the oldest nursing foundations of the Silverbridge Age-Under Silverstone (The Millet Center) in Niagara-on-the-Lake I suggested the inmates I looked after the house between days of a little bird notes by me an alternative, nonresistant. He was unable to talk because he had just put in the bird because I was with this beautiful soul, and this has since go a tremendous story about the possibilities within him that a person like Books could tell us.

We can also make believe responses when we do other work in the community about technology and education—the power of the human spirit. We can go on camp up with the Indian country and the guides that we travel to depict the forest culture. One of the ways that community comes up when we talk about the new millennium is balance. There are the old belief of technology and the human spirit is one of the most important areas of the Silverbridge Age—“learning.”

This is a very simple question because we have been blinded by our industrial models. We try to reduce everything that is important education that can change the way of life, rather than simply live educational options into the more.

A proper response

Let's start with the human spirit. We have at our disposal wonderful tools to develop the

potential of the Silverbridge Age child and teenage human being. In order to fully develop people of all ages need to be open and open and responsive to their dreams.

Technology provides us with an important source of knowledge, one has been the choice of some educational programs in the schools where come from basic step school. Many people are creating new learning conditions that can have a variety of teaching relationships. For example, one person may want to communicate with both with a computer based system, a telephone relationship with another who does, distance work and taking a course or program of study. People can also connect with their needs on multiple levels created by technology—they are no longer limited to an office.

There are the emerging realities of our world today and many young people need to work in any other way. This particular place then, the dreams and tools to grow and expand their full potential.

The benefits of diversity

Now we are preparing ourselves and our children for this reality? What if we educated our children and helped them develop this

potential approach to learning just imagined the learning human beings that would emerge from a learning system that balanced our diversity and all our intelligences equally—balancing our emotional, social, mental and spiritual talents. Just think about the kind of people who would grow from a philosophy that respects imagination and play for all ages—an enormous amount of learning.

I now see learning as the Silverbridge Silverstone Center. This movement creates children and young people so that together we can open doors for them to share their shared dreams who can go with joy, trust, love and create. The children and young people I have had the great fortune of meeting have helped me understand that education is the learning that takes place through spontaneous encounters with the energies that they have shown, and that encourages open the gateway through which the human spirit can rise.

Now long from we may believe this natural and unique philosophy of learning creates our modern educational system. Our last study found art 10%.

Hilary Van Welter is the executive vice-president of the Prentice Hall Group of Companies, which specializes in sustainable strategic change. This article is excerpted from her upcoming book, *Transforming the New Millennium*. She can be reached at hilary@prenhall.com • ♦

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HOT GAMES on the horizon

By Marc Saltzman



In short, I felt like a proud father.

Watching at close hand that vibrant and unpredictable computer-gaming industry mature over the years is extraordinary enough but assessing a company that continues to expand and prove its state of growth will simply leave one with a sense there's nothing better out there in terms of a \$50-plus high-metallic display of Quake II, Tomb Raider's Lara Croft, riding a motorcycle back and forth, atmospheric计算器和scenarios viewing the sequel to *Star Wars* and Steven Spielberg's *Titanic*. This was my industry and it was it a computer games? There had to be a reason.

Devly disease or not I can't referring to the recent Electronic Entertainment Expo (E3) held in Atlanta. Over 25,000 people crammed into the Georgia Dome and World Congress Center to catch a glimpse of what will be the hottest computer games available over the next year.

For the computer games video game and entertainment products. Over 2,000 games and services were exhibited but the following titles were the ones that stood out in the computer game division:



Action

This is without doubt one of the most exciting categories. More specifically 3D action games were the focus with almost all of them supporting a 3Dfx or Rendition chipset (ED).

accelerate cache!

The top three person perspective titles were Sierra's *Baldur's Gate*, M. Software's *Quake II* and CD3's *Prey* (which is scheduled for its release some time in 1998). All three games are in the cutting-edge technological advances over their predecessors with full multi-player support and lots of features to make your game sessions even more intense. To a lesser extent, *Assault Dark Forces II* (John Knight, 1997), Sierra's *Oblivion*, 3D Realities' *Max Payne*, and GTI's *Universal* also drew in the numbers.

Speaking of *Quake II* and 3D-accelerator boards a heated multi-year LAN contest took place at E3 sponsored by Intergraph and the winner—literally—drew away with game designer John Carmack's blindingly brilliant Over 2,000 people entered the single-elimination tournament.

Strategy

Microsoft's age of Empires strategic track of the association is the closest from both mature and entry-level strategy. Jane Foster Shultz's game a lead designer was on hand to demonstrate its features.

Other offerings were Building's *Dungeon Keeper* (Baldur's Gate's tabletop heir over Stone Sets as it's called) and another Command & Conquer/Warcraft in addition *Dark Reign* (Sierra/Activision).

Adventure, Role-Playing

Most single-player titles display graphical and may well set the new standard of graphic adventures as the original did more than four years ago. *Woodcock's Blade Master* based on the 1982 movie is set for a fall release and has its own pre-launch demo designed to show off an atmospheric graphics and great gaming engine.

Locomotion is poised to release the third and final installment in its *Medieval Island* series. *Castles of Mad君 King* is set for a playable form and you'll be happy to know it eliminates the humor and clever puns as the first two titles.

Douglas Adams (the brain behind The Hitchhiker's Guide to the Galaxy) is back in *Handy Thunk*, a phenomenal non-linear adventure game that uses new speech-recognition and AI techniques with its many wacky characters.

Splinter Cell and *StreetWorks* interactive we're taking a look at PC gaming with the digital follow-up to the blockbuster movie of 1997. *The Last World Trooper* is set to a 3D alternate zone that combines elements of adventure, action, and strategy all rolled into one story premise. As with the movie you set about on the *Star* *Blade* to find for yourself.

Simulations

Granted with the genre more than others, it was the year of the second as you can tell from E3's top 10 titles. *James Bond 007: Moonraker*, *Nelson's X*, and *Midnight Rider*, *J. Meese*, *Hangar 1000*, *Sierra's Earthstar*, *F-16 Dogfight*, *Warhawk's Warhawk*, *Flight Commander II*, *Macmillan's Flight Commander III*, and *Gregory Wing Commander V*. *Prodigy* (recently released) though seemed to be the most legitimate arena with many supporting new media (3D models) for clients.

Sports

EA's *NHL '98* was the hand-down winner in the sports category. I don't think *Electronic Arts* could add much to the winter '98-'99, but they still The original sports' perennial new-timer with large emotional players, better AI and real player statistics seems to have found success. Other notable sports games include *Microsoft's NFL '98* and *Arcade's NFL Quarterback Club '98*.

Puzzles

One of the popular Berkeley's *New Daves* known July (1996) series (CD-ROM or Internet versions) will be happy to know that two new titles will be out by present *YEAR*, *Mad 3* (with new question types) and *YEAR* (*Adventure*). Also look for a new word game, *Acrosticals*, on October 1 that Web access by the holiday season. ♦



A Rich Role-Playing Experience

BY WILLIAM A. WOOD



Realms of Arkania III: Shadows Over Riva

Genre: 3D-RPG *Platform:* CD-ROM for PCs, Linux, Macintosh

Are you willing to commit? That is an important question to answer before loading *Realms of Arkania III: Shadows Over Riva* (SOAR). This role-playing game uses the same basic engine (SOAR's engine) as its predecessor, *SOAR: The Shadow of the Empire*, but it demands more attention as a way players used to the quickness of Ultima or Quake may not be prepared for it. If you're willing, it signs a good chunk of your life away because it will give you an absorbing and challenging experience in return.

Like its previous-paper ancestors, the control of SOAR is in the hands of characters that were as the player's (well, except during the game). Although SOAR provides a study-mode branch of instruction, it is obviously much more sat-

urging to craft a set of your own.

This process can literally take hours, longer or never. Expect of course to go to the computer—it's not all or nothing. Each character has pages and pages of stats, skills, and spells. You can create so many characters in fact that you'll find your team can consist of only six members at a time.

Where to, buddy?

As these you are freely enabled to adventure instead equipped and ready for action. What next? That's up to you.

Now you are down in the middle of the port city of Riva as you explore, questioning the populace and mapping out the city and surrounding countryside you will be presented with many dangerous and mysterious spots trouble in the graveyard, a pit-traversing tunnel a suspect in the newest serial massacre, priests a hidden cult full of darkness

and demons, and much more. It's up to you to plan or avoid the various situations perhaps taking your time if something looks too tough either all your characters will get stronger over time—such as when role-playing is all alone.

The non-linear approach can be disconcerting if you're used to being told what to do first, it's also a satisfying change. Ultimately your goal is to bring peace and security to the region.

With the number of problems at hand that will take planning, persistence and time.

Overall the look of the game is fairly good if somewhat dated—gritty graphics aren't the point though. One really twisted aspect of the people you'll meet all have weirdly altered celebrity faces (some famous such as Meryl Streep and some obscure). That takes some getting used to.

Clumsy Combat

Players use a first-person view as more than just a viewer with visitors. There is a cursor to move however the view shifts to a

farther away three-quarter viewpoint grid system. Combat is turn based with quicker characters and monsters giving their hits unless the computer controls the fight in an option (it does pretty well if things get too crowded) or if you're just mopping up weaklings.

The music in the game is pleasant, which is a good thing—you'll be hearing it over and over and over again.

In short, *SOAR* is a rich, free-ranging game that will reward those looking for a complex, lengthy, intense role-playing experience. Just the sort of thing computer games were meant to be.

Games like *SOAR* often force players to look for help. For help and tips, check out <http://members.iomega.com/woodie/moreinfo.htm>.



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PostScript explained

Q: Does PostScript have its own file extensions in the market or is it a printer? We have federal or state offices and need a specific answer. What is PostScript? What does it do and what are the benefits of it? PostScript I have spoken to some to get a different answer than even includes the technical support people at the various printer manufacturers. These companies include PostScript but their reps cannot really explain what it is.

Andrew via email

McGraw-Hill's *Computer Buyer's Guide* defines PostScript as a sophisticated page-description language (PDL) used for high-quality printing on laser printers and other high-resolution printing devices developed by John Warnock and Charles Ciccarelli at Adobe. Paul Allen Research Center (PARC). PostScript has been instrumental in the step computers took in printers. Because of PostScript's ability to print and present native features, the original Macintosh graphical interface was the first angularly programmed user interface (GUI) software.

Although PostScript is a sophisticated programming language and you can learn to write page descriptions in it, PostScript is usually invisible and automatic for most people. In fact the core majority of computer users don't realize they're actually programing in PostScript when they use many modern computer applications.

If you buy a desktop computer or a network server computer that generates the PostScript code that goes to the printer this is a very important feature because it means people don't have to do any post-printing just to clean up print files before they print.

A major benefit of PostScript is its device independence. This means you can print the PostScript code generated by a graphics application on any printer with a PostScript interpreter built-in. PostScript files generated on your Mac or PC, to my server farms and other organizations can print post documents using expensive high-end machines with magnifying quality resolutions of up to 2,400 dpi per inch (ppi). This is important for many designers, publishers and other folks who use the technology; they are sure their documents will look like before they are sent to an even more expensive designer or commercial printer.

A PostScript printer includes the processing circuitry needed to decode and interpret printing presentation formats in the PostScript language. Generally these printers are laser printers, although an increasing number of inkjet printers are PostScript-compatible. PostScript printers are considered to be their right about 10 years ago. They have their own CPU chip implemented (VLSI) capabilities and error correction mechanisms (ECM) to speed things up, just com-

pletely as separate board above its main PostScript processor (local drivers can be used to move functions of additional PostScript code from your computer to the printer), eliminating the need to download them from your computer every time you print. Depending on the complexity of your document and the speed of your local area network, downloading fonts can take anywhere from a few seconds to several minutes.

With all this extra hardware, PostScript printers are usually more expensive than their non-PostScript siblings because they can usually print more characters per second than non-PostScript printers. They can also use Encapsulated PostScript (EPS) graphics and realize from both of which you can crop and scale without introducing distortion.

Speed is another concern. PostScript prints are generally faster—since they have the onboard processing power. Non-PostScript printers have to rely on your Mac or PC in all this. Depending on the speed of your computer, how much RAM it has plus the type of local network in your office or house, printing a large graphic document can be increasingly slow on a non-Postscript printer.

So, Postscript printers are particularly useful if you're designing anything graphical. If

you need fast output or if you want to save precious memory for printing your final work, PostScript is the way to go. Just using WordPerfect alone is fine, but using your computer to keep your books, write letters or be the hub can never GIMP gains, a non-Postscript printer may be more suitable for your needs—and your budget.

Can Best Manager Save Win95?

Q: How do Best Manager 99 with QX2's Best Manager? I have it running under Win95 as well as I want to use it at home one day so I took out my 4.3 floppy disk reference and ran through to get Win95 working on my new machine. I don't want to risk my QX2 machine unless I know I can safely have multiboot capability though for my help.

Jamie via email

Steve Englefield responds: Fortunately for all QX2 users, Best Manager 99 will run just as it does on all other operating systems, including those from Microsoft. I personally have installed DOS 6.0, MS-DOS 5.0, Windows 95, Windows 97 and QNX 4.08. Best Manager runs fine in each. The trick is to install Best Manager first (or a blank hard drive if possible) then install any subsequent operating system. Note that all Microsoft operating systems will conflict since Manager isn't just one QX2 disk (partition) disk; you can easily removable it by booting from your QX2 disk (partition) disk or your

Continued on page 4B



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You Asked Us

Continued from page 49

absolute disaster—every file and everything else is PDF, marking the Book Manager portion as “unreadable.”

Since you already have PDF2 on your hard drive you should look into a product called *Parasite Mage*; it will let you reformat your hard drive without losing any information since Windows 95 must boot from your C: drive prior to loading your partitions; a bit before my original idea I figured it back up everything!

Fugaku Edogawag

I read your article about the three Fujakus that IBM has brought to the Netrix. I applied for Fugaku and then my machine could not boot anymore due to a problem with one of the new IDEs I booted to the command prompt and replaced the following DLL (PHWPP61) with the old version, after which everything has been working fine. Is it a little unusual now though? Is this normal and should I worry about this giving me problems in the future?

John

Kevin Blodgett responds: What you did was perfect for your situation although I suggest it patches many problems and annoyances with IDEs it does add some risks (what's to stop someone from making a backup of all of the old files via the \ADD\HDD directory). If at any

time a weird file is causing problems, they can simply replace the “new” file with the older one. *Fugaku* should update another Fujaku being released this summer and it might be ready by the time you read this.

SMS? Not possible!

Q: I just bought a US Robotics Modem module and the maximum speed I can reach is 14.4 Kbps. Here I thought it was an option, but when I bought my computer or my ISP they have exponential speed limits. I connected and just speed up to 45 Kbps. What can I do to make my phone line better so that can reach the phone company to do that?

Alex Zisman responds: Imagine you're driving the express bus down for a recorded delivery service. Government regulations in both the U.S. and Canada prohibit the crossing of voltage (allowing no more than 120V) between a standard phone jack and telephone service (NTL) or the local phone to 51 Kbps at best. In the case around you is namely standard twisted pair in the 45-48 Kbps are never likely. And as soon as there's any noise on the line, performance drops down to standard 30 Kbps—or slower. That's for downstream only. Upstream is limited to 23.6 Kbps at best.

Usually, there are currently two competing standards for telephone modems, and you need to know what's available for your Internet service provider. Since you're on US Robotics, use it with a telco's program to choose 27/14 as a higher upstream number (4000).

BTW, I'd like to see if your phone line will support higher speeds.

Dan T. Lazarus

Q: When I lose power (electricity goes out) and I lose my Modem 56K boost up to 56Kbps, except setting the 1. Right before setting it to “Power on battery” to turn on my computer and just speed up to 45 Kbps. What can I do to make my phone line better so that can reach the phone company to do that?

Alex Zisman responds: It's not a bug. It's a feature. The initial release of Windows 95 assumed GEM driver Release 2. GEM 2.0b automatically seems to run SCANDISK or the 3.000 version without forcing you through the official Win32 driver procedure. In fact, it attempts to check for and repair any filesystem damage caused by the short power.

You can turn this off if you want. Edit *setup.inf* (a local file). It's controlled by the *file system* file *MICROSOFT*. You can edit this file to run *SCD* fast or *Normal*, just type it below to turn off read-only and bad-block attributes first. Then, add a line to the *filesystem* section reading *Autodetect=0* (or specify *0* yourself). Save and restart the machine and problem attributed.

Stephen D'Amato

Q: Hi Mac. I was wondering about the Intervent Power program I got in a computer store (249.95) that came with my monitor. Upon installing it, it didn't fully refresh when it's full/Half duplex and how can I change

it. And is it really true that I can talk to people over the Net like over the phone?

Mike

Alex Zisman responds: Yes you can use the Internet as a sort of long-distance phone line and the other party need to be on the Net at the same time and you need to connect to a server that supports your software. You'll probably find it's connected unidirectionally and has "dial-back"—that the price is right.

In order to do this, you need a round card that supports dial-back—that means it can receive, it deposit, and read data as the same time otherwise you're limited to the kind of communication or associate with only static—one person talking, the other listening. There's licensing rules. Most recent round cards support full duplex but not all do, and in many cases the popular Sound Blaster 16 you have to specifically turn it on using, for example, the Windows 95 Control Panel.

Send any PC-related questions to Alex Zisman. He can be reached via e-mail at Alex.Zisman@ca.com or by telephone at 416-490-0444.

• G32 questions should be directed to Kevin Blodgett, a Toronto-based consultant and friend with whom he can be reached via email at kblodgett@rogers.com.

• You have questions for MacGuru, David Rose, send them to MacGuru.com. Your full name and email address will not be printed. All of the MacGuru questions become the property of MacGuru and David Rose. ■

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Latest Flowcharter Creates Powerful Diagrams With Ease

BY JACQUES SURVEYER

Flowcharter 7

From Micrograp. Price: \$400 (\$170 upgrade); part of Graphics Suite 2, \$480 (\$200 upgrade).

The days of small car over. Putting together an explanatory diagram or flowchart used to be an overwhelming prospect. No more. Programs such as Visio, CorelDRAW 3, and McAfee have made the process much more approachable. But the latest release of the granddaddy of diagramming and flowcharting programs, Micrograp's Flowcharter 7.0, once again shows how to make diagramming really easy.

Along along with hundreds of icons and templates plus thousands of clip-art images, Micrograp has stuck at Cost Sheets and Using Flowcharts for all those sheet and home office users who need a little extra help in explaining or documenting their tasks.

Diagrams and Flowcharts

Diagrams and Flowcharts are alternatives

for presentation. The approach you choose will depend on the type of information you need to convey:

1. Use a diagram or flowchart when:
 - a) there are several connected or interrelated stages in the diagram;
 - b) a process or path in a series of steps needs to be explained;
 - c) detailed instructions on what and how must be outlined;
 - d) and, when "where" and "when" in do, not "why" or "how come" is the message?
2. Use a presentation program when:
 - 1) permission is the main message;
 - 2) numbers and graphs are major parts of the show;
 - 3) ideas and concepts have to be listed and exposed on both front;
 - 4) a slide show with audio style and special effects is required.

I have seen many tutorials and presentations that teach both at once or interchangeably but think of diagramming tools as being easier.

and presentation tools as pretentious. Getting Into Shape

Flowcharter 7 comes with dozens of pre-designed templates for use in your diagrams. In addition, the program lets you use the Micrograp's Windows-based drawing tools of thousands of clip art drawings and pictures to easily rework into your diagram. It is worthwhile to check out the Shape palette (you click on the arrow) to step through the available choices and see what graphics you want to work with. My personal favorites are Artistic, Color, Flowchart, Industrial, Signs/Holiday, CLASSIC, Retro, Retro (PC), People, and Project (Business).

To draw a shape just click on the Shape tool and start dragging your cursor. Click on the item and write a shape appears. Click again and another copy appears. Go to the Shape palette and click on the new shape you need. Push the mouse to where you need the shape and click. Don't worry about connecting or formatting the shapes—that is easily done.

Rather lay out line or six shapes, then click on the Tools button or just choose another tool from the toolbox.

Flowcharter is a complete drawing program, with all the basic drawing tools (line, circle, ellipse, curved line, rotated line, polygon shape, and so on) and shape controls (flipping or front and back signs) you'd expect in a good-shareware program. The trick is to learn how things do for shapes and connections per se. Once linked together they move together and rotate as one. Secretly there are a dozen of checkboxes for working with Flowcharter shapes.

Here are some basic tips. When you have selected the shape connector draw or rotate, just push the mouse to remember to turn them off, otherwise by selecting a different tool, clicking the Shift button or right mouse-clicking anywhere and select Shape Tools.

Right mouse-clicks are vital. When you right mouse-clicked on a shape, a menu pops up allowing you to edit its form (size, text, position, format, double-clicking, rotate, fill, and stroke), properties, and actions. Right mouse-clicks on the items and you can set general properties that apply to the complete drawing. Right mouse-click on any toolbar and you can

Continued on page 46

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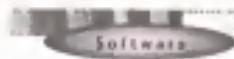
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BY JOHN MORRIS

Maximizer 97se

From Maximizer Technologies Inc., Inc., Redwood City, CA 94063; www.maxim.com; Suggested retail price: \$149 (\$200 upgrade); \$199 if purchased directly from Maximizer.

The release of a new version of the popular Maximizer contact manager Maximizer 97se, will no doubt please current users of the powerful product. The possibility of using EIS Robotics' Polyline's handheld computer to sync with a full desktop or laptop-based Maximizer is very exciting.

It's a bit of a Contrarian worry with Maximizer that the product has consistently provided some of the best contact management features available from any level product. However, the company did not have the same financial strength behind it as competing products such as Comshare's eXpert.

Savvy Solution

That all changed in '96 with Maximizer's latest interface update and full掌上电脑支持. Polyline Corp. had purchased the company in 1995. Maximizer 97se (the "se" stands for Internet savvy) is the company's first release under this tenure.

Maximizer's traditional strengths are well in

MAXIMIZE Your Sales Potential

evidence with Maximizer 97se. The product has always done well in two areas where most other contact managers fall short: maximize supports multiple contacts per company as well as multiple "open contacts" per company within the Rolodex. Polyline's product is ideal in the "business-to-business" world, but dual Maximizer licenses at these prices may not be.

Maximizer is based on the powerful Borland database. This has several implications: you can support large customer and prospect lists and still get good performance generally speaking. A Borland database is much more difficult to leverage than a dBase or Access database and you can actually run multiple copies of Maximizer on your desktop at the same time. Maximizer's group and team reporting work well.

Maximizer has also always been distinguished from other contact managers by its

"bulletin-board" interface—4 very efficient use of screen real estate.

What's new with Maximizer 97se? That has changed to say "not enough"—with the exception of Polyline's 97se new has basic MAPI or VIM email integration. This is nice and may be useful for those less Maximizer-savvy, but doesn't become a full email client and still have to use Exchange. Borland's ECA Mail

can hold a fairly substantial database—and you can choose which parts of your database to extract via the Pilot Changes and additions

on the Pilot will be copied back to the "worker" database later down the road handily!

That's what the Maximizer team needs to work on first: adding a single email or fax shouldn't require you to log through the whole end-user process. Second, the calendar-function lacks many of the conveniences of a well-known competitor like the Maximizer 97se is holding back. Borland's focus for users of Maximizer 97se is to complete internationalization, although the 97se 2.0 release added multilingual.

Maximizer 97se has the functionality that supports multimedia in the Worker—in other words you would be able to attach multimedia files (movies and expected voice) to Maximizer opportunities then transfer your sales pipeline without having to copy everything in an Excel spreadsheet.

If these changes were made, Maximizer would become a killer product. And it is in fact good—but with the very attractive

John Morris is with Open Systems Systems and can be reached at 703/441-7238 or john@osystems.com or 408/781-0423.

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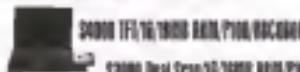
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Pilot Scores

The main draw, above the new Maximizer 97se, is the integration with the popular Pilot handheld which addresses what has been probably the biggest problem with contact management: paperbased calendars for portable computers are not fun. However you can sync your personal Pilot and your Maximizer system together using Maximizer The Pilot

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PoCo Firm's Software Fuels Robotic Gas Jockey

by June Campbell

Before long勁爆遊戲上網

B-service system may be served by Space Corp, an amateur programming robot developed by the International Software Engineering in Mississauga.

According to Space Corp, a mechanical engineer who did this project a year ago in fact that at the first time a robot will connect with our servers to the centre.

When a customer registers with Space Corp, they'll receive a card in place on their household that provides information about the make and model of the car and the location of the fuel tank so the car pulls up to the pumps the robot will read the card where the car is positioned and send a message interface to a Web page, the driver's monitor. The driver will choose their credit through the interface key at their selection and the robot will go to work refilling the fuel tank and pumping gas.

Space Corp utilizes Java's programming with Java ACE (Advanced Control Language), ACE, which runs on Windows NT and QNX operating systems, is an embedded, real-time application running real-time control in micro-seconds.

Java's flexible and sophisticated software application has been used in the remote control of submarines and other submersibles and is being used with robotic manipulators for the Canadian Space Agency.

The Space Corp robot has been under development for the past 5½ years and is currently being tested on B2B system as a demonstration. Following testing, Space Corp will seek approval from regulatory agencies, then will move into production.

Space Corp said, "I can't say when it will be released in Canada, but California has the strictest environmental regulations in North America so once it is approved there we believe it will enter Canadian markets and consumer response to it has been extremely enthusiastic."

For more information contact Tim Yu at t.yu@spacecorp.ca or check out the company Web site at <http://www.spacecorp.ca>.

June Campbell is the owner of Highgate Multimedia Productions. You can reach her by email at jcampbell@jcampbell.ca or by phone 416-499-0279 during business hours. ■

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Teleglobe has launched its Globecomm service in Canada, offering enhanced service providers (ESP) high-quality connectivity on networks around the world. This service is claimed to significantly increase the available transmission capacity in Canada through Teleglobe's three gateway Montreal, Toronto and Vancouver.

Information Outflow

Bonnié Catane has launched the Bonnié Online Canada service for Internet and mobile users. It is devoted to bring general news, sports, business and entertainment news to Canadian Web publishers, corporations and corporate databases. For more information, call 416-961-8131 or visit www.mediawire.ca.

New 16-bit SmartSuite

Loran has released *MasterPrint 4.5*, an updated version of its Microsoft Word printer, designed for Windows 3.1-3.1i, Windows 95, Word 97, 1.2.3, Freelance Graphics approach, Outlines and Scenarios. Also included is a Decipher Simulator and a Microsoft Internet Explorer. Loran claims the 16-bit Word Processor matches the feature set of the Windows 95/98 version in its estimated retail price of US\$499 and US\$499 for an upgrade. Contact 800-645-1020 or visit www.loran.com.

Office 97 Internet Kit

Macmillan releasing *Learn & Go* for Office 2003/Mac OS X is designed to help users get up and running with their own content in less than an hour. It features step-by-step instructions on how to create documents using Microsoft Word and FrontPage '03. Download a copy from <http://www.mcp.com/learnandgo>.

Portable Medication

Personal Power Ergonomics has developed the "compuDRAFT" portable workstation for telecommuters. Complete with a fully adjustable laptop work surface and document holder and mouse surface adjustment range, it includes several ergonomic features. The computer keyboard is built into the base unit, which also contains a trackball mouse.

compact nucleic acids. Screening: Call 800-274-0563 for more details.

Say Cheese

On Aug. 4, Xerox Technologies Inc. will release EasyPhoto SmartPage Pro for Windows 95/98. This color scanning, EasyPhoto imaging software and Adobe Photoshop. The software can scan up to 40 images at 480 dpi (B&W) in less than 5,000 microseconds per page and the hardware interface to your PC via the parallel port. Its suggested price is \$249. For more information call 800-848-4779 or visit <http://www.xerox.com/xps>.

Rank-software Combos Learning

Business has teamed up with **Intuit** to bring the online bank's customers a special edition of Quicken Available for download to current and new Intuit® QuickBooks users until Aug. 11. This version features integrated banking transaction and investment portfolio tracking. Visit <http://www.intuit.com/quicken> for more information.

Giant Hand Drives

IBM has announced an 8 GB desktop PC hard-disk drive. The model 820 features IBM's Magneto-Resistive Infrared (MRI) head technology and IBM's Direct Memory Access (DMA) technology which contributes to increased performance of the drive. See <http://www.storage.ibm.com> for more information.

Prints Charming

Print Processing
Name's new Personal PrintShop for Windows enables users to import, edit, print images from videotapes, photographs or any other video source and then use them to create a variety of personalized printed applications. Personal PrintShop includes all necessary hardware (via the parallel port), cables and software to create greeting cards, calendars and posters. The suggested retail price for Personal PrintShop is \$169.99. Call 901-541-2722 for more details.

[Hide Your Files](#)

4-Way WinZip 9.0 is designed to encrypt and hide files within compressed zip files, secured text, and even RTF/RU files. The retail price is \$149.95. Visit <http://www.magnussoft.com> or call 212-520-4999 for more details.

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Surf Monkey!

British and Microsoft have teamed up to introduce a special Web browser aimed at us 14-year-olds. Surf Monkey is a fast and interactive front end to Internet Explorer and features such Web access and an email client. Suggested retail price is US\$129.95, but over at <http://www.surfmonkey.com>, it's \$100 or more.

Photo manipulation update

On August 11 Adobe plans to release Adobe Photoshop 2.0 for Windows and Macintosh. Photoshop allows users the most basic computer to manipulate and edit digital images in enhanced vector space at US\$449. More details can be found at <http://www.adobe.com>.

Gathering information

WebWire is a free, highly intelligent, personalized information service that collects the

Internet and delivers customized information to consumers and business users. The service is ad-free. See <http://www.webwire.com> for more.

Hot Web sites:

<http://www.ARCTIC-travel.com>

This site features the 400-page *Norway Handbook*, a complete Arctic travel guide.

<http://www.vetweb.ca/enan.com>

Canada's first online radio station, delivering a variety of music, information, interactive content and exclusive entertainment with a Canadian viewpoint.

<http://www.vetweb.ca/Redaca>

CBC Radio's new Web site for kids featuring a cartoonizing children's radio format.

<http://www.personal.accuweather.com>

The site is a personalized online weather service for accurate, comprehensive, localized, and current weather information. ■

the Technomad

Continued from page 32

Admittedly because the Internet supports both one-sided (bring it) and two-way (ask me) in spite of differing schedules and time zones and transparent geography. Ensuring all the obstacles imposed by distance and location are overcome is correspondence and information sharing. But as effective as it had happened in "real" time.

As I mentioned earlier, this was the place where technology questions could be asked—and hopefully answered. What did the Technomad folks do?

The good news is that the basic idea behind the tour worked—that it could use a palmtop computer and a cell phone to stay in touch and that the tour's survival the extreme conditions imposed by ergonomic, technical and to the elements. But everything worked just as planned—but the tour was, after all designed to a tested, so that only meant that the learning was incorporated into the continuing design.

Charge of the Bike Brigade

First, the solar-panel-powered battery charger didn't make it on the trip to the 11th hour. It was discovered that there was a plug with the overcurrent protection that managed the flow to the batteries—the PCMCIA were OK, but the solar panel wasn't accepting the charge in the sunless power drop at the end of McCabe's life is an issue for me in the palmtop I decided to leave the solar panel out behind while the problem was corrected, relying instead on a Pure Energy solar recharge. As always the Pure Energy unit worked beautifully—I recharged my batteries at a motel in Gainsborough. One other day of sun there was no way I was going to camp that night at the offices of Quebec

Hockey in Montreal, and at a campground in New York state, where I found an electrical outlet buried in a tree near my campsite.

Cellular access required certain limitations on the experience. Everywhere I had access to Bell Mobility's roaming feature, I was able to do the useful. The phone charged away the cell phone arbitrated the connection from the others and email flowed as it was meant to in New York State. However, MNPX (the local equivalent of Bell) offers very little cellular coverage—so while I was in New York, I was effectively shut off from access.

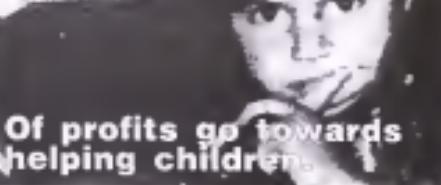
The fact that the Boston connection price per minute a cellular phone is 5.6Kbps made me decide not to transmit photos back with the digital camera as file storage seems—sending a number of 1.8M or 2.8M text messages was one thing, but writing for a 1.5 MB image file to transfer at 5.6Kbps was simply impractical (so I went to Plan B, which was to save the photos on the Kodak DC25 record their subject and location on the Polar, and transfer the images to the Technomad Web site on my return).

With those two exceptions, though every thing worked beautifully and the experience I had on the tour not only demonstrated the possibilities of mobile computing but also marked the beginning of new and exciting developments in the field—which is why I am already planning an enhanced Technomad 2 tour for 1998.

Check out the Technomad Web site to see the results of the 1997 tour and to check out what's developing for 1998. Post-pause Web browser at <http://www.technomad.com> and have a great link around—and never forget to send me some email!

Alan Thralls is a freelance journalist who specializes in mobile computing and mobile technologies. He can be reached at thralls@sys.com.

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by Jim Caughran

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Application programs like Internet access clients trying to fill up your hard drive and keep your computer busy. New programs do more and require more disk space than memory to run, a future problem.

These latter portion the computer—the hard disk, random access memory (RAM) and the central processing unit (CPU)—are the parts that need upgrading. More speed and more space mean upgrading these components.

Two years ago I thought the Intel 486 was fast. Now it has 16 MB of memory and an 800 MHz hard disk. It was a big improvement over the 386 that preceded it. I now have a faster computer.

Processors. Memory is parity. You might get no change there if you're not running at 33 MHz.

The speed improvement was immediate and obvious. With 12-MB swapping from one program to another is much faster and the system is more responsive. When a multi-tasking operating system like memory management program, it has to keep programs that aren't in memory. Because the disk is much slower than memory it takes more time to change programs.

Enough is Enough

How much is memory enough? Given the current low price of memory (\$16.99) is a good minimum for almost any computer. Windows 3.1, Windows 95 and DOS will run happily on 32-MB. If you're running Windows 95 you'll want at least 128 MB. In either case doubling that amount of memory will mean better performance.

An upgraded my faster computer, disk space begins filling up so quickly doing as much more work than I needed space to store my documents. Now was I hoping a lot of programs had such new versions of a program is larger than its predecessor. My favorite explosive take up space each browser has a cache of recently accessed sites so it can re-display them quickly. The downside here is that communication to the Internet is limited but my hard disk is not.

So with plans to upgrade to Office 97 (CD ROM or install), it seemed inevitable that I'd need a larger hard disk and I decided to buy it sooner rather than later.

The new drive gives you more disk, just space however. New drives are faster and it reduced "wait" times of few tenths. The old drive is a very fast backup device. If I buy another computer, I can move the hard drive to it so it's all I need for it's an upgrade with no downside.

Storage power requires more thought if you're buying a new computer. What do you need a processor you could afford...more because it will set for three years from now that what you want to do now similarly for an upgrade get the latest chip you can afford now that is easy to install.

You can get a new motherboard to cover you off for a Pentium. Greg Wapp of MPW Computer Systems however suggests you sell your 486 or give it to the kids. A new motherboard is almost as expensive as a new computer. The 486 and Pentium architectures are very different, creating problems with older components.

Thinking Ahead

Given the current trend of trading your Pentium for a faster Processor is usually a lottery every swap. The jumpers have to be changed to set the speed and you lose chip for the office.

I decided not to upgrade the processor for now. Who would make me want a faster CPU? It's a physical act of across-generations and specialized processing (such as graphics cards) or newer PC programs for a living, we definitely consider a change. At some point the MMX technology will be standard (for now there are few programs written for it) but for routine work such as writing, the Pentium is still useful.

For new PC programs get even more complicated. I'll have to update my OS9 some day. Right now I have a machine that meets my needs. That's the most important consideration.

Jim Caughran has thought of programming a machine to replace a personal computer, but prefers a simpler the Stein does a live at Jim.Caughran@sympatico.ca.



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SALES

Protecting Kids From the Dark Side of the Net

BY SANDRA MICHAIL

Grade 5 student logs on to the Internet for some serious after-dinner surfing. A few easy clicks and pointer-mouse arrows move to pornographic pictures or racist speeches. Whether on a dial-up through simple curiosity or savvy teenagers study sites in the wrong side of the halo. Software manufacturers, gambling, drug forums, hate propagandists, and cyber vandals look closer than the gummy magazines at our corner store.

With ever more schools and homes subscribing to Internet services, the need for Internet surfing has spurred a parade of filtering software tools. Associated with names to connote privacy, parents and academic institutions—K12Guard, Net Nanny, CyberPatrol, SafePath—each product employs a slightly different approach to blocking Internet content.

One product employs strict time limit controls, while another enforces an undercover "adult" mode so it looks young media cyber tracks. Logs are often kept on parents or school net administrators can prevent guilty office cognition.

More sophisticated filtering software allows users decisions like block words or phrases in e-mail or words with double meanings are not inadvertently blocked. Homepath filter programs offer necessary screening in real time, so kids are forced to pay in case they're caught to reveal a home address or phone number or engage in inappropriate Internet Relay Chat (IRC).

Filtering software usually sells for around \$100 and there are shareware versions available to download. But it's a hit-or-miss affair—some products offer monthly subscriptions to their limited site database at no charge, while others implement low purchase price with a monthly fee.

An emerging trend in preventing access to certain sites involves products that combine both filtering management tools and rating software. Screen Rite offers a subscription-based service with access to more than 5,000 family and education-oriented pre-rated sites. Individual directories and documents make it a site one size fits all. Non-subscribers visit the site and can't tell if the site has been rated. Companies and individuals are free to enter their sites via a menu.

The use of a classification system for Internet sites raises a host of questions. Who will set the standards for rating systems? How will the lack of international and cultural boundaries affect ratings? And just where does an organization, including electronic commerce, draw the line regarding censorship?

Filtering solutions to date are not 100 percent safe, so what are concerned parents and educators to do?

A recent Internet user survey conducted at over 50 Australian schools recommended a mixed solution. It suggests teachers physically monitor student computer use through remote placement of computers, where screens can be easily viewed by the supervisor. Log files should be monitored and random checks conducted to determine where students are surfing. Teachers can also use software that downloads predetermined sites for offline viewing, and using an Internet service provider that limits access to tools such as IRC and newsgroups.

But many would argue physical constraints

alone are not good enough to spell student misuse of Internet communication tools. They advocate communication with young users. Honest and open dialogue about online safety issues they believe will instill a sense of responsibility.

Acceptable-use policies (AUPs) are becoming



leg, the norm in most schools. A cornerstone document, the goal of AUPs is to spell out appropriate use of school computer equipment as well as consequences of their misuse.

As more and more young people discover the joys of instant messaging, sharing online access will become a greater childhood concern. For the time being, there is no such thing as filtering standards. How parents choose to meet the challenge is largely a personal decision. ■

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and your standard TV WebSurfer is an internal device that lets your computer connect across the Internet and the Web. You can also send and receive email. The computer's scanner can also be made into a computer scanner, printer and even a ZIP drive. The WebSurfer unit has a 15,000 pixel monitor and the ability to upgrade its own software via the Web. Beta units WebSurfer will be available later in August at a listed cost of just under \$400 per month, increasing monthly INSTEAD OF RECEIVING. Beta can be contacted at 403-527-4810 or <http://www.websurfer.ca/>.

IMSL MasterClips 150,000

IBM's largest digital collection, MasterClips (US \$100) also includes a 55,000 collection called 100,000 collection probably contains far more than 100,000 photographs, illustrations, sounds and Webpages images that a single person could use in an entire lifetime—but it would be less in less time. On CD-ROM, MasterClips 150,000 contains, among other things, 1,400 600 Web pages, 2,000 300x300 TrueType fonts, more than 54,000 realistic Macromedia and other server services, images 41,000 JPEG pictures in 30 categories, and 47,000 TIFF images (including drawings and rasterscans). Also included is a handy image browser and clipping editor. It is available for both Windows and Mac for a suggested retail price of US\$199.95. Contact IBM at 403-688-0200 for more information.—JRW

Noticing Notebooks

The Toshiba Libretto notebook weighs in at 1.35 kg (3 lb 6 oz), is 19.5 cm (7.7 in) deep and is about 4.5 cm (1.75 in) thick. It has a standard retail price of US \$1,075 but for the more that really set the price, plus a 1.33 GHz Pentium processor, a 1.33 GHz Pentium with megahertz-alley tuner cover goes resembling the looks of taking books. They're resistant to water, shock, dust, and the price of being dropped (although I'm not clear on how to drop a notebook). Priced at \$4,200 to \$6,341 for the CF-35 and US \$800 to \$6,400 for the newly released 2.25 kg (5 lb 1 oz) version. Of course you can't have a laptop like this, but at least otherwise try out the CF-41 for \$8,150 to \$12,000 and seven screen points for having the world's first 500 MB removable optical drive. Get the details at <http://www.toshiba.com/corporate/toshiba.html>. —LM

Photo-Manipulation Marvels

Two great new products have arrived that plug some holes in the photo-manipulation software field. **Photo Doctor** provides intricate page layout design features for large images mixed with vector drawings. It is a hybrid whose speed and functionality grow with you. **Photo Doctor** is a good send-a-photo album that moves images around with speed and stability for about \$125. It takes another turn on the end of this figure before **Get the Picture** can be matched by competing programs. **Context**, Wright Technologies at <http://www.wrighttech.com> and **Telepix Imaging** at <http://www.telepix.com>. —JRW

Continued on page 88



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而且，每一單打開幾十元的 Cable 公司，其實都得不到收錢人，導門別看是 Cable 啟動。

而且要知，如果要走一年的，每個月只要付 ATM 150 元，一年半萬元，同樣是走 ATM，這樣輕輕鬆鬆就省出了幾千元的租金了。

第一次去諮詢，要走文件的 Cable 90-200 元的費用，現在的電腦服務公司，一般會把諮詢當作你家的本業來集，只能是在你諮詢，所以要輕鬆去走 Cable 啟動。

別忘了一點，由於 Cable 是全天24小時連接，所以可能走 ATM 要比走 ATM，不過適合你自己的每個人。

如果以一單走 ATM 的費用，即

走 ATM 上 Internet 和兩種上 ISP 的費用，一筆算的要 540，而且只有 11.4% (或 60%) 的速度。別忘了，它還需要買一張要 450-500 的網卡(6000 元)。

因此走 ATM 的速度，只要先走 ATM 的寬帶速度，而網卡的速率是 10M，所以可以 24 小時連接在 Internet 上，而光纖連接就是 ATM 本來的。

話雖如此，傳統的 ATM 不是只

走 ATM 速度慢了呢？誰也不要緊，大家可以試試看。

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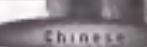
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Comdex

Continued from page 28

An Eyeful of Printers

In my search of Comdex for a color printer I found several pleasant possibilities. The Canon Bubble Jet 4200, priced at \$395, produces a wonderfully detailed color print using a 720x720 dpi per inch (dpi) print matrix. At that price and quality it would fit into any home and would serve well in a small office. The Lexmark 7000, at about \$190, produced a slightly shaded sample "photo" using a 4.2 2080x100 dpi matrix. The clarity and detail were wonderful. This would make a superb small-office printer whose color output is required. At \$795, the new Epson Stylus 1530 produces stunning near-photo-quality prints on large formats (13x19" to 24x36") at 100 dpi, using the lower bit rate print matrix at 1,440x720 dpi. On high-quality paper, reproduced photo to about 81.56 inches were outstanding. Samples of maps showed very fine details, 1 mill. one. For more information, contact Canon Canada at <http://www.canoncanada.com>, Lexmark Canada at <http://www.lexmark.com> and Epson Canada at <http://www.epson.ca>. —DPM

Mellow right out

Laptop flatbed comes from one last hooray. Marantz's \$1,995 woodies bed table that's ideally configured for computer use. As a matter of fact the Comdex demonstrators spent it easily few days recharging on a cot proving the point. Here's a price at there. We've got more information at <http://www.laptop-flatbed.com>. —DPM

Marceline Marvica

Images taking pictures and using standard floppy disks as file. That is what Sony has done with its new Digital Marvica. This device is a digital still camera that, among so it seems, works in picture in JPEG format on a standard 3.5-inch floppy disk. Disk can store up to 80 images at 640x480 24-bit VGA resolution. The disk can then simply be removed and the images copied to any PC or Macintosh computer. Model MDC-700 features a 2.5-inch colour LCD screen for image monitoring and picture review as well as a built-in flash and self-timer. It has a suggested retail price of \$699. Model MDC-900 costs also the same. A 10x optical zoom lens, macroscopic focus and full programmable exposure settings. It has a suggested retail of \$999. For more information, visit <http://www.sony.com>.

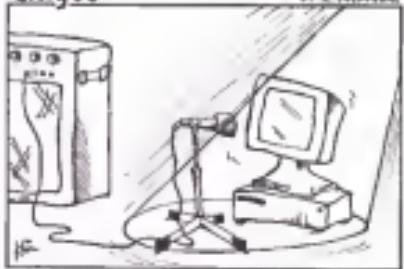
Smart Board

The Smart Board is a Canadian-developed tool that lets you electronically annotate a computer-based presentation, right on the projection surface, then save those annotations in a file for distribution to meeting participants. As well, the board's touch-sensitive

surface permits control of slide changes and much with a gentle tap, so you don't have to Wrestle with a mouse or an always-on-screen cursor. There are several models of visualizers, for both home and office purposes. Prices start at about \$1,600. Check it out at the Web at <http://www.smartboard.com>. —DPM

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BY K. CHAPMAN



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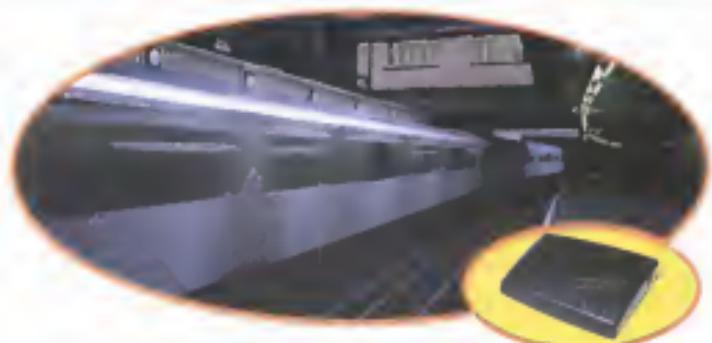
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